CHRIS Workshop - Breakout Sessions

- **Group A - Concept of Operations and Use Cases**
  - **Many are potentially possible**
  - **Many are potentially valid**
  - **Which way is best will not be known for sure for some time**

Group One Participants   Tuesday

Warren Switzer
Warren Katz   (Lost Weds to schedule)
Ruth Willis
Mikel Petty
George Thompson
Al Sciarretta   (Lost Weds to Smart Sensor Web)
Michael Young
Bob Might
Dr Ted McClanahan

CHRIS

Working Group A
Concept of Operations and Use Cases

- **Examine CHRIS feasibility <u>from the Operations Expert's perspective</u>**

- **<u>Would</u> a SEDRIS-like approach, in the HBR domain:**
  - **Gain buy-in from the DoD/Intel Community operational leaders?**
    - **If so, which organizations and which leaders would buy-in?**
    - **If not, where would opposition most likely come from?**

  - **Have a multitude of obvious (or subtle) and applicable use cases?**
    - **If so, what would a few of these be?**
    - **If not, for which domains would it be hardest to conceive applicability?**

  - **Gain strong Funding and Political credibility and backing?**
    - **If so, from which organizations should the initiative be driven?**
    - **If not, what other M&S efforts would likely be prioritized over CHRIS?**

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Group One Discussions(of IT)

- Behavior moderators were discussed.
- Better answers to customers questions at a lower price/cost
- Each model with it's own interface to HLA
- DMSO orientation has been interoperability and reuse, is that what is desired?
- Human behavioral representations are coming, more than shooting/physics based M&S
- Accuracy of data is more important than interoperability at this point
- The KA is well beyond the military, state department, CIA etc
- IO ops need to be understood and later modeled

- We are too immature to construct a DIF at this point, it will be years until the behavior community is ready.

- Work on small microscopic models would be the recommendation

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Group One Discussions(of IT) Continued

- Smart ideas will be copied, competitors will clone superior ideas
- The second time code is written, it is noticeably better/improved

- Will model accuracy improve because of an interchange format

- Or will format standards alone provide that improvement

- Will CHRIS stifle initiative?
- Psychological models vs the engineers (budding cognitive scientist)

- AI "Better models and correct data = (are) IT"

- Environment is critical
- You must be alive to be a leader   (rules are - dead and out)
- What are the relevant dimensions?

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Group One Discussions(of IT) Continued

- Will IT save money?
- Will IT have a customer base?
- What is happening in computer science & games? There is no miracle there, looking to split into two camps. No standards in this arena.

- If all the industry guys were together would they be able to agree on a taxonomy or framework?

- Nine guys on an elephant, real discovery.

- Simulation is asking a lot, unit level training, mission training,

- Combat instruction sets? Data
- Anthropomorphic models? Jack, DI-Guy, etc.
- Decision models are VIP
- Individuals to groups, to mobs etc

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Group One Discussions(of IT) Continued

- Anthropomorphic models
    - Who would use it? What Std might push the models forward?

    - Biometrics Crew - IAC, JMASS

    - Force protection - NBC, OOTW

    - Modeling military organizations, crowds and mobs

- What are the keys (standard moderators) to be modeled?
- Linear fatigue and stress are pretty well done, the complex ones are not well documented (fast change of states)

- OneSAF may have enough small unit behaviors which are "good enough"

- Do we need a taxonomy, or just shift P-K?

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Group One Discussions(of IT) Continued

- C&C makes a big difference in holding the border, much more so than changing P-Ks

- What is IT?

- There does not exist at this time enough data to warrant the development of a SEDRIS-like data to justify an interface standard.

- Therefore there is no large body of data to draw information out of, so no action is required.

John Tyler inputs:
1. Implemented systems
2.
3. Studies in academia and (Armstrong Labs and is available) but was single variables per task. Breaks down with two changing variables, but many models do use two models

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Group One Discussions(of IT) Continued

- JSF question to Mike Young: neural net options, visual options, would the DIF matter?

- Some situations or regular basis, where does IT need to be?

- John shares his ideas with the group.

- Is HLA a better way to do human behavior?

- Do we need both an interchange mechanism and an internal system?
- Human behavior is 10X compared to the terrain problem.

- Do we just need an HBR FOM
- Dr Ruth – don't get too many individual FOMs

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Group One Discussions(of IT) Continued

- Belief change generator at anthropomorphic models
- the data is there
- start there
- get some lessons learned

- Look

- Facilitators engaged with group.

- HLA might be OK for some types of human interactions

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